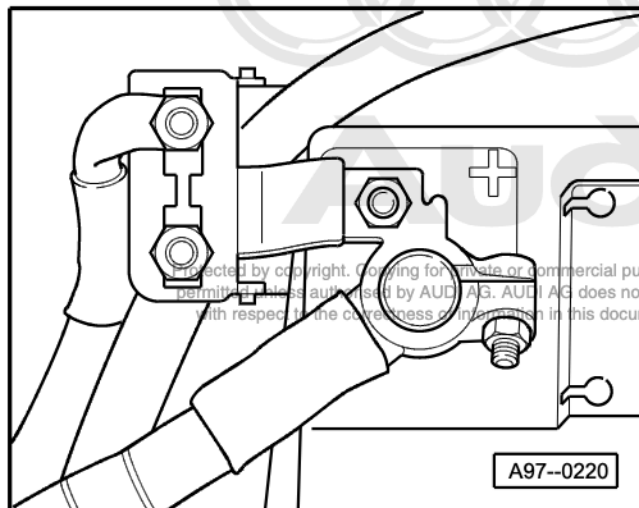


1.8 l - Injection Engine (125 kW - Motronic - 4 Cylinder) engine codes AMB

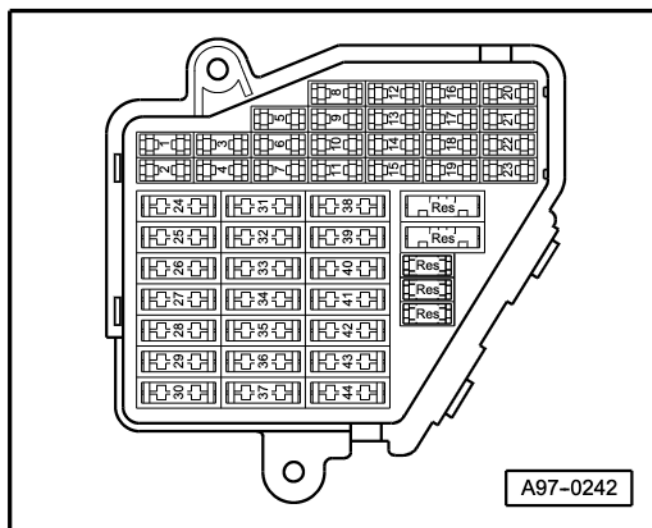
From 2003 m. y.

Main fuse



◆ on the Battery

Fuse holder



◆ Instrument panel driver side

Fuse Colors

30 A - Green

25 A - Withe

20 A - Yellow

15 A - Blue

10 A - Red

7,5 A - Brown

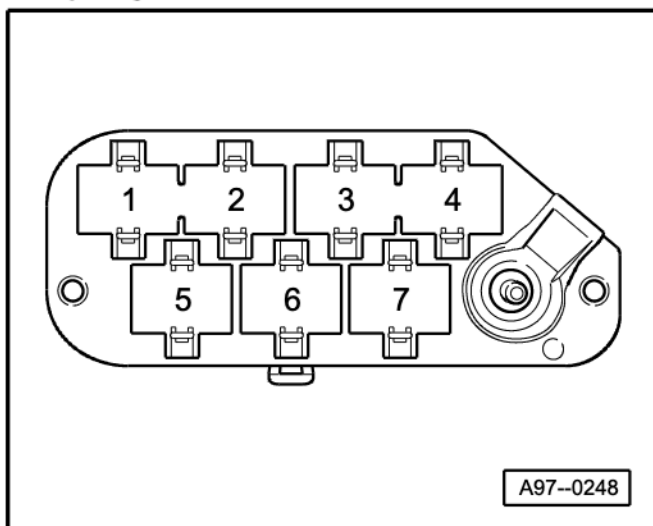
5 A - Beige



Note:

◆ Fuse in fusebox from 23 onwards are numbered 223 onwards in Current Flow Diagram.

Coupling station with threaded connection



◆ in the electronics box, plenum chamber

1 - 10-Pin Connector, black (T10)

2 - 10-Pin Connector, brown (T10a)

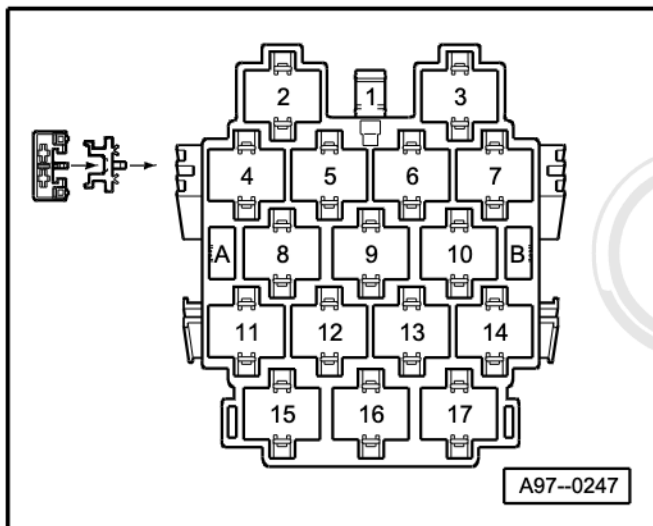
3 - 17-Pin Connector, red (T17d)

6 - 17-Pin Connector, white (T17e)



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Connector station A-pillar

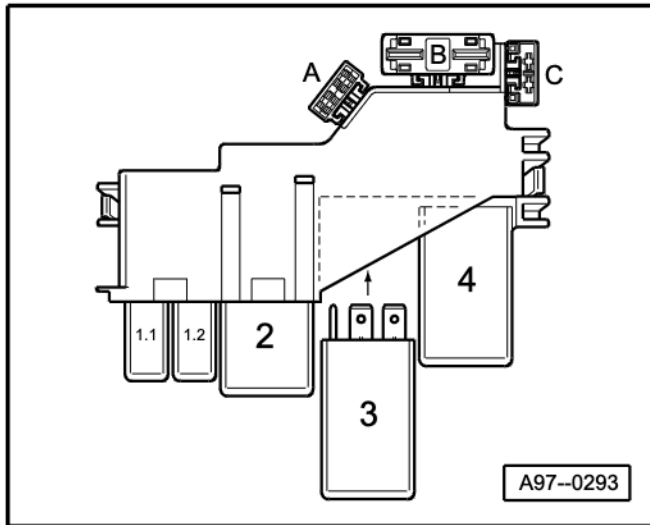


◆ behind side trim, left

- 13 - 10-Pin Connector, violet (T10c)
- 14 - 10-Pin Connector, grey (T10d)
- 15 - 17-Pin Connector, green (T17b)
- 16 - 17-Pin Connector, red (T17a)
- 17 - 17-Pin Connector, black (T17)

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4-Pin Relay Carrier



◆ in the electronics box, plenum chamber

2 - Secondary Air Injection (AIR) Pump Relay (J299)

3 - Motronic Engine Control Module (ECM) Power Supply Relay (J271)

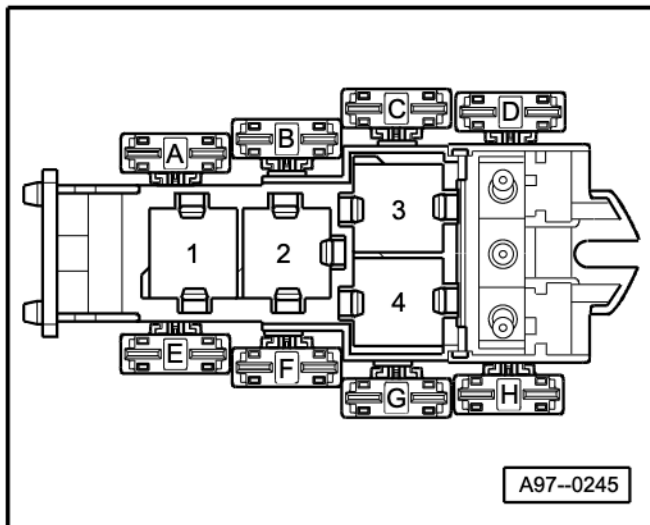
4 - Locking relay for starter (J434)

A - Engine Electronics Fuse (S282)

B - Fuse for secondary air pump (S130)

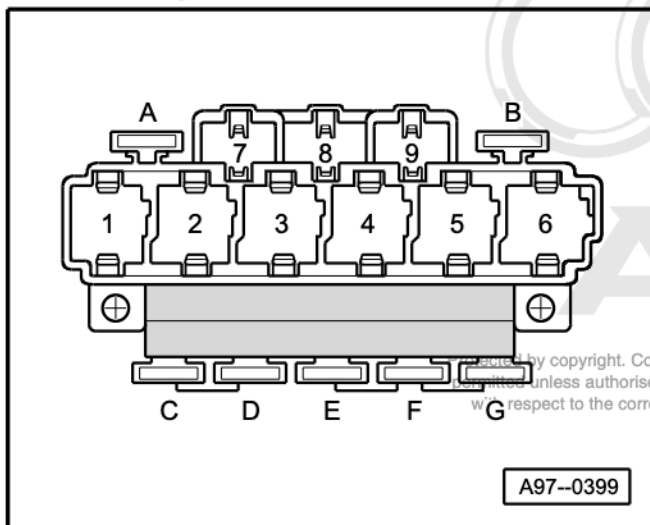
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4-Pin Relay Carrier with threaded connection



◆ Instrument panel driver side

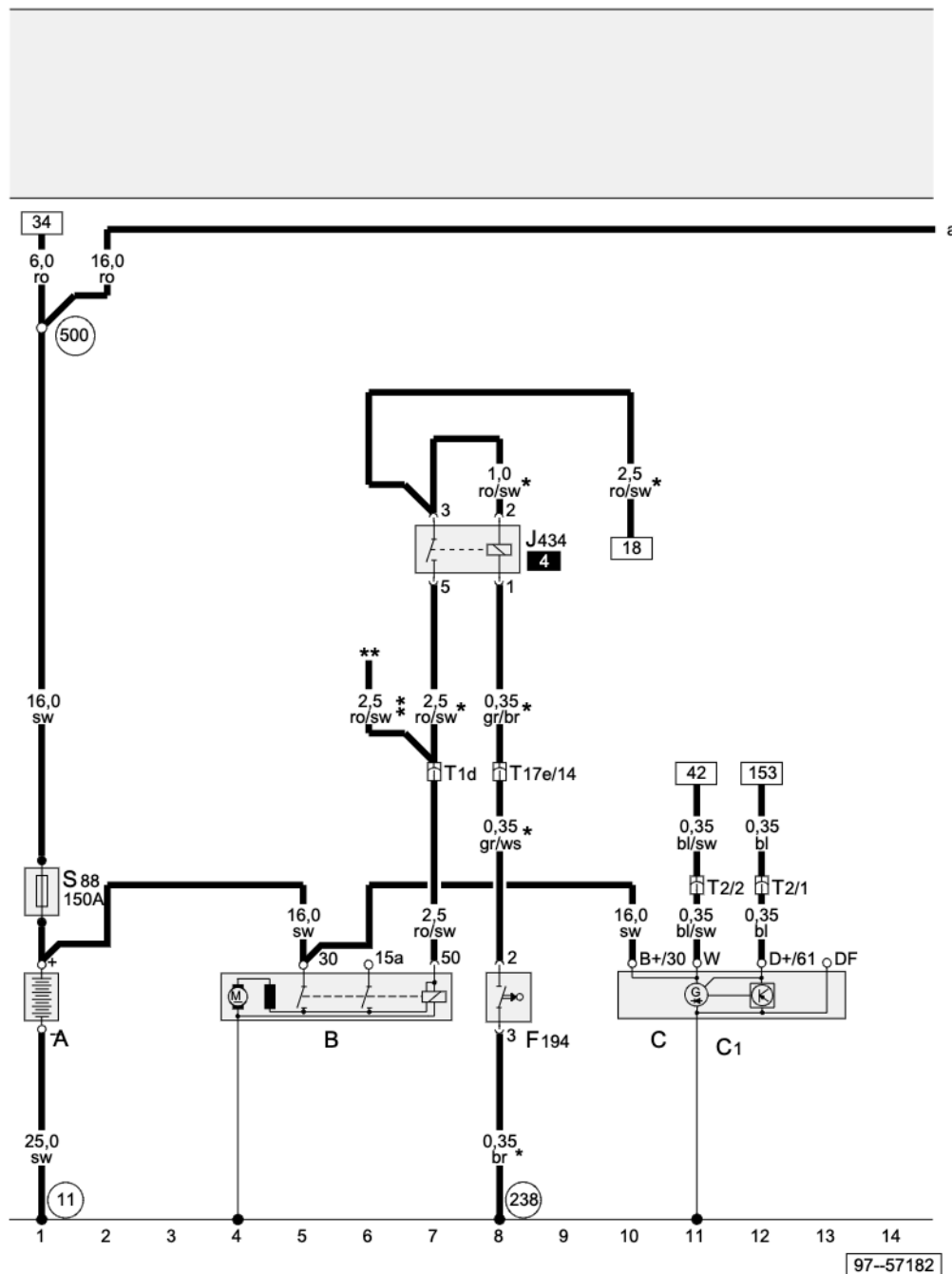
9-Pin Relay Carrier with Vehicle Electrical System Control Module



◆ Instrument panel driver side, behind 3-Pin Relay Carrier

1 - Fuel Pump (FP) Relay (J17)

4 - Brake Booster Relay (J569)



Battery, Starter, Generator, Locking relay for starter, Clutch Vacuum Vent Valve Switch

- A Battery
- B Starter
- C Generator (GEN)
- C1 Voltage Regulator (VR)
- F194 Clutch Vacuum Vent Valve Switch
- J434 Locking relay for starter (clutch pedal switch)
- S88 Fuse Strip (main fuse)
- T1d 1-Pin Connector, black, engine compartment, left
- T2 Double Connector, black, engine compartment, right
- T17e 17-Pin Connector, white, connector station E-box, plenum chamber

- 11 Ground connection, in battery box
- 238 Ground connection -1-, in wiring harness interior
- 500 Threaded connection -1- (30), on the relay plate

* Manual transmission only
 ** see applicable automatic transmission (multitronic 01J or AG5) wiring diagram

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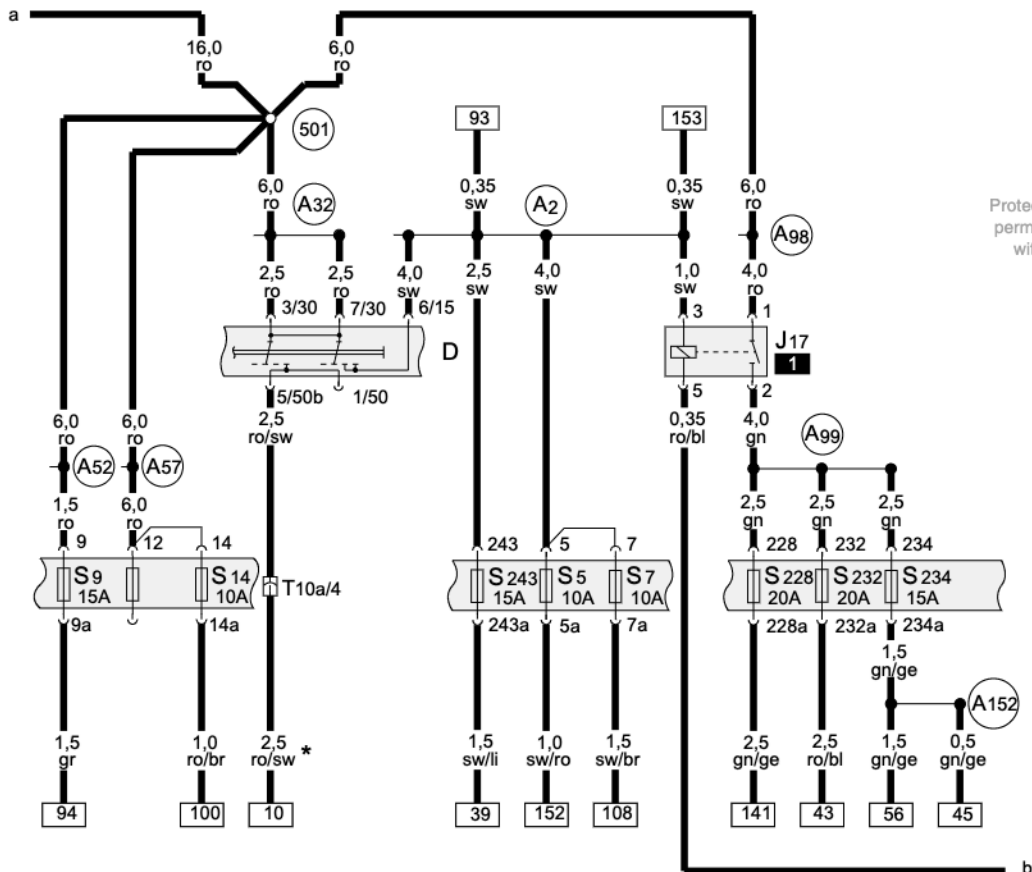
Ignition/Starter Switch, Fuel Pump (FP) Relay, Fuses

- D Ignition/Starter Switch
- J17 Fuel Pump (FP) Relay
- S5 Fuse in fuse holder/relay panel
- S7 Fuse in fuse holder/relay panel
- S9 Fuse in fuse holder/relay panel
- S14 Fuse in fuse holder/relay panel
- S228 Fuse in fuse holder
- S232 Fuse in fuse holder
- S234 Fuse in fuse holder
- S243 Fuse in fuse holder
- T10a 10-Pin Connector, brown, connector station E-box, plenum chamber

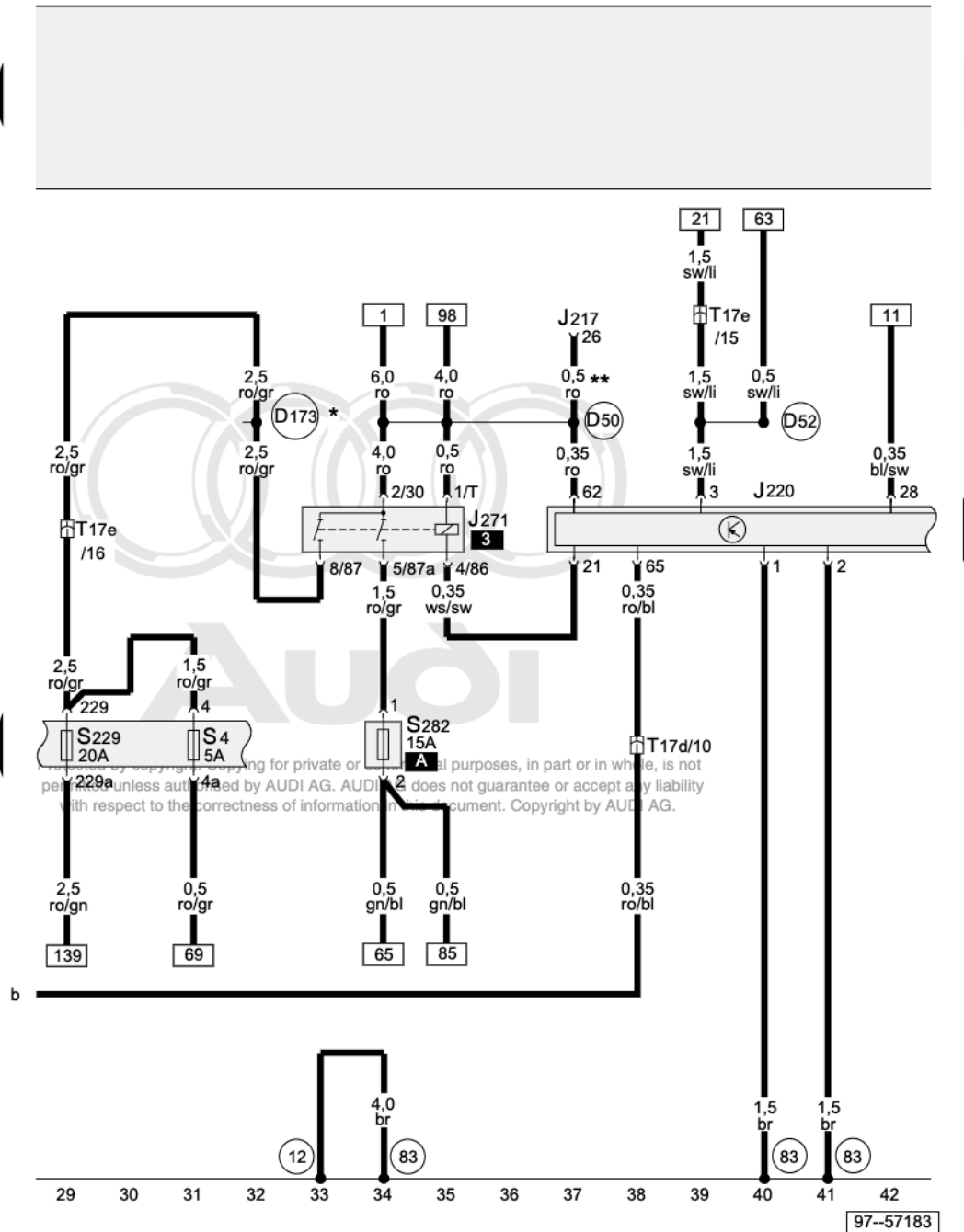
- 501 Threaded connection -2- (30), on the relay plate
- A2 Plus connection (15), in instrument panel wiring harness
- A32 Plus connection (30), in instrument panel wiring harness
- A52 Plus connection -2- (30), in instrument panel wiring harness
- A57 Plus connection -2- (30), in instrument panel wiring harness
- A98 Plus connection -4- (30), in instrument panel wiring harness
- A99 Connector -1- (87), in instrument panel wiring harness
- A152 Connection -5- (87), in instrument panel wiring harness
- * Manual transmission only

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15 16 17 18 19 20 21 22 23 24 25 26 27 28
97-55865



Motronic Engine Control Module, Motronic Engine Control Module (ECM) Power Supply Relay, Fuses

- | | |
|------|--|
| J217 | Transmission Control Module (TCM) |
| J220 | Motronic Engine Control Module (ECM) |
| J271 | Motronic Engine Control Module (ECM) Power Supply Relay |
| S4 | Fuse |
| S229 | Fuse in fuse holder |
| S282 | Engine Electronics Fuse |
| T17d | 17-Pin Connector, red, connector station E-box, plenum chamber |
| T17e | 17-Pin Connector, white, connector station E-box, plenum chamber |

- 12 Ground connection, in engine compartment, left
- 83 Ground connection -1-, in right front wiring harness
- D50 Plus connection (30), in engine compartment wiring harness
- D52 Plus connection (15a), in engine compartment wiring harness
- D173 Connection (87), in wiring harness engine pre-wiring

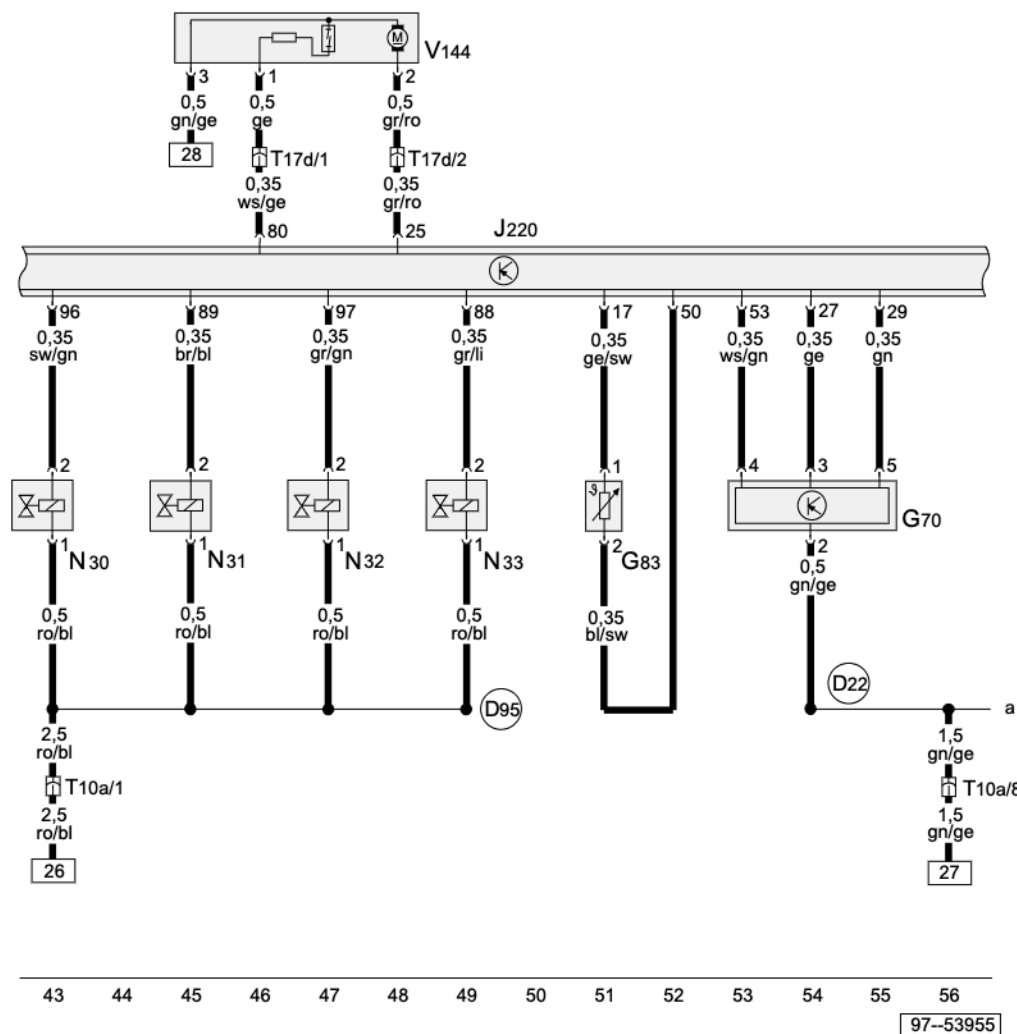
* Automatic transmission (multitronic 01J) only

Automatic transmission (AG5) only

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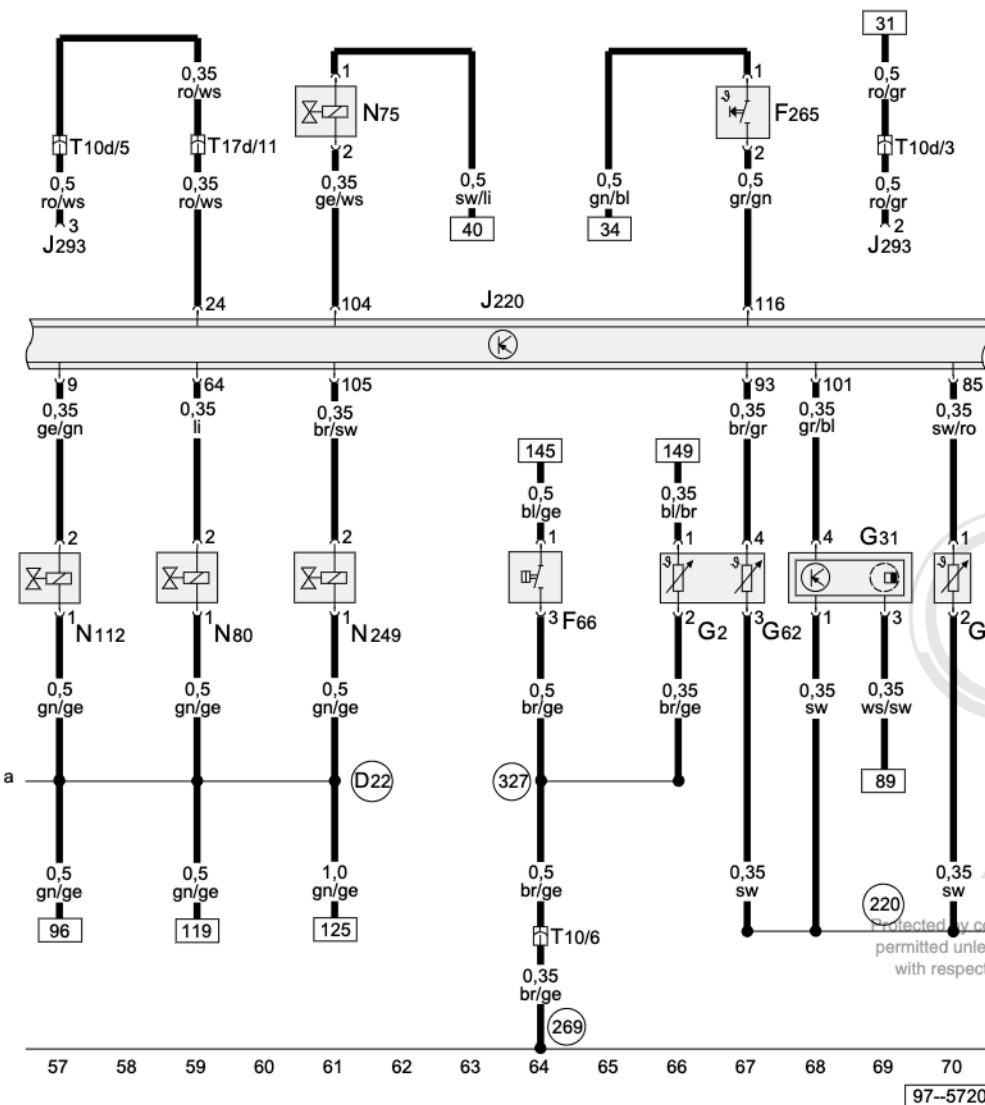
Motronic Engine Control Module, Mass Air Flow (MAF) Sensor, Engine Coolant Temperature (ECT) Sensor (on Radiator), Fuel Injectors, Leak detection pump (LDP)

- G70 Mass Air Flow (MAF) Sensor
- G83 Engine Coolant Temperature (ECT) Sensor (on Radiator)
- J220 Motronic Engine Control Module (ECM)
- N30 Cylinder 1 Fuel Injector
- N31 Cylinder 2 Fuel Injector
- N32 Cylinder 3 Fuel Injector
- N33 Cylinder 4 Fuel Injector
- T10a 10-Pin Connector, brown, connector station E-box, plenum chamber
- T17d 17-Pin Connector, red, connector station E-box, plenum chamber
- V144 Leak detection pump (LDP)
- D22 Connector (over fuse 234), in wiring harness front, right
- D95 Wire connection (injectors), in engine compartment wiring harness



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Motronic Engine Control Module, Engine Coolant Temperature (ECT) Sensor, Charge Air Pressure Sensor, Intake Air Temperature (IAT) Sensor, Wastegate Bypass Regulator Valve, Evaporative Emission (EVAP) Canister Purge Regulator Valve 1 (pulsed), Recirculating valve for turbocharger

- F66 Engine Coolant Level (ECL) Warning Switch
- F265 Map Controlled Engine Cooling Thermostat
- G2 Engine Coolant Temperature (ECT) Sensor
- G31 Charge Air Pressure Sensor
- G42 Intake Air Temperature (IAT) Sensor
- G62 Engine Coolant Temperature (ECT) Sensor
- J220 Motronic Engine Control Module (ECM)
- J293 Coolant FC (Fan Control) Control Module
- N75 Wastegate Bypass Regulator Valve
- N80 Evaporative Emission (EVAP) Canister Purge Regulator Valve 1 (pulsed)
- N112 Secondary Air Injection (AIR) Solenoid Valve
- N249 Recirculating valve for turbocharger
- T10 10-Pin Connector, black, connector station E-box, plenum chamber
- T10d 10-Pin Connector, grey, connector station A-pillar, left
- T17d 17-Pin Connector, red, connector station E-box, plenum chamber
- 220 Ground connection (sensor Ground), in engine wiring harness
- 269 Ground connection (sensor Ground) -1-, in instrument panel wiring harness
- 327 Ground connection (sensor Ground), in engine compartment wiring harness
- D22 Connector (over fuse 234), in wiring harness front, right

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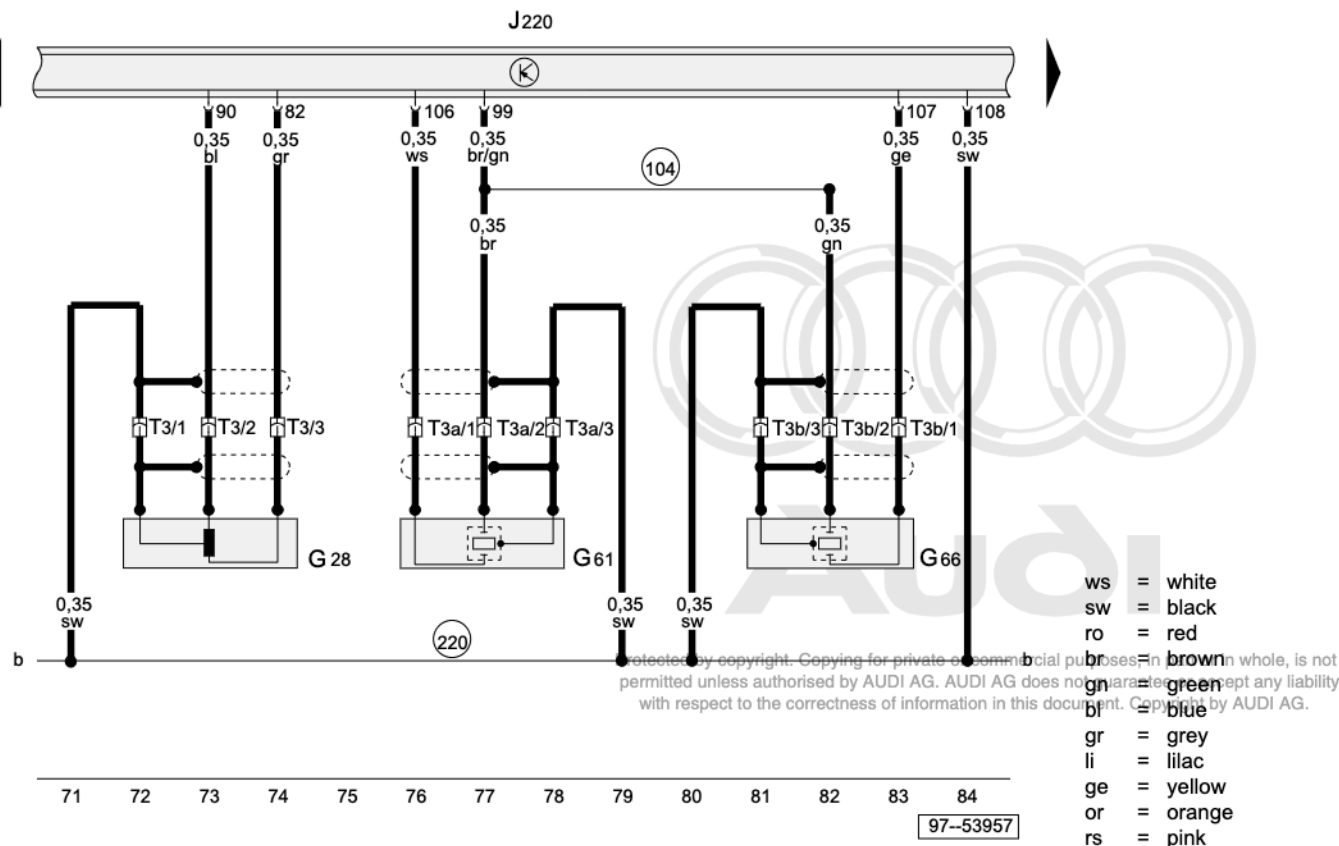
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Motronic Engine Control Module, Engine Speed (RPM) Sensor, Knock Sensors

- G28 Engine Speed (RPM) Sensor
- G61 Knock Sensor (KS) 1
- G66 Knock Sensor (KS) 2
- J220 Motronic Engine Control Module (ECM)
- T3 3-Pin Connector, grey, on engine block
- T3a 3-Pin Connector, green, on engine block
- T3b 3-Pin Connector, blue, on engine block

104 Ground connection, in right front wiring harness (sensor Grounds)

220 Ground connection (sensor Ground), in engine wiring harness

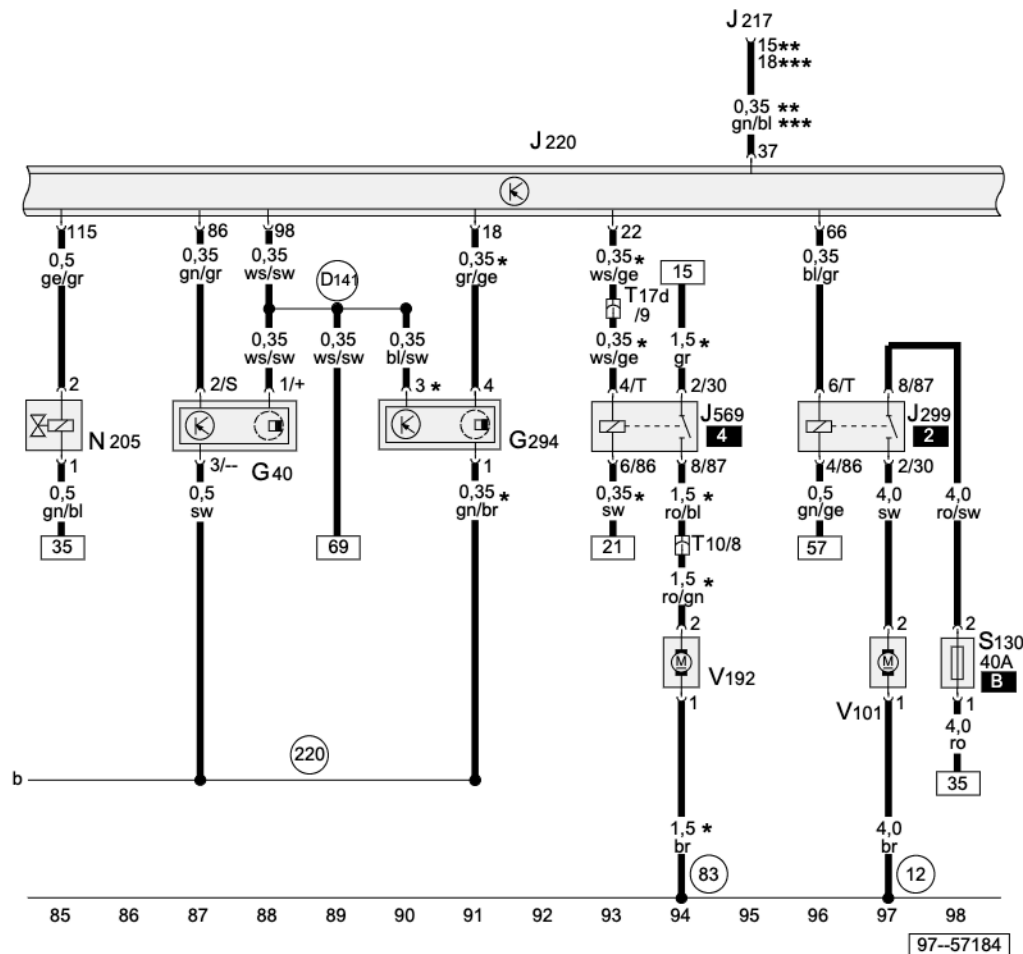


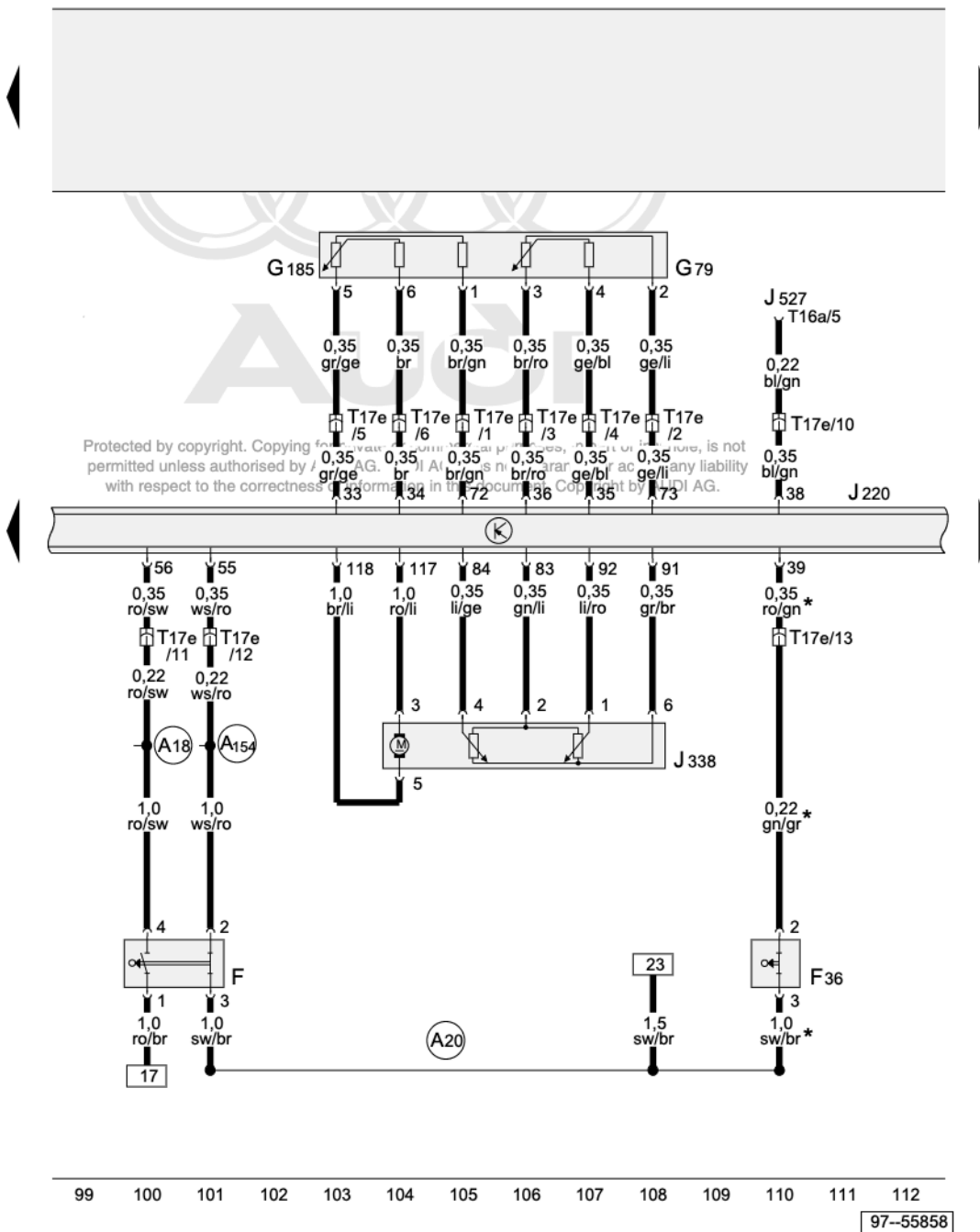
Motronic Engine Control Module, Valve -1- for camshaft adjustment, Secondary Air Injection (AIR) Pump Motor, Camshaft Position (CMP) Sensor, Brake System Vacuum Pump

- G40 Camshaft Position (CMP) Sensor
- G294 Brake Booster Pressure Sensor
- J217 Transmission Control Module (TCM)
- J220 Motronic Engine Control Module (ECM)
- J299 Secondary Air Injection (AIR) Pump Relay
- J569 Brake Booster Relay
- N205 Valve -1- for camshaft adjustment
- S130 Fuse for secondary air pump
- T10 10-Pin Connector, black, connector station E-box, plenum chamber
- T17d 17-Pin Connector, red, connector station E-box, plenum chamber
- V101 Secondary Air Injection (AIR) Pump Motor
- V192 Brake System Vacuum Pump

- 12 Ground connection, in engine compartment, left
- 83 Ground connection -1-, in right front wiring harness
- 220 Ground connection (sensor Ground), in engine wiring harness
- D141 Connection (5V), in wiring harness engine pre-wiring
- * Automatic transmission (multitronic 01J or AG5) only
- ** Automatic transmission (multitronic 01J) only, up to 2003 m. y.
- *** Automatic transmission (multitronic 01J) only, from 2004 m. y.

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Motronic Engine Control Module, Throttle Valve Control Module, Throttle Position (TP) Sensor, Clutch Vacuum Vent Valve Switch, Brake Light Switch

- F Brake Light Switch
- F36 Clutch Vacuum Vent Valve Switch
- G79 Throttle Position (TP) Sensor
- G185 Sender -2- for accelerator pedal position
- J220 Motronic Engine Control Module (ECM)
- J338 Throttle Valve Control Module
- J527 Steering Column Electronic Systems Control Module
- T16a 16-Pin Connector, black, on steering Column Electronic Systems Control Module
- T17e 17-Pin Connector, white, connector station E-box, plenum chamber

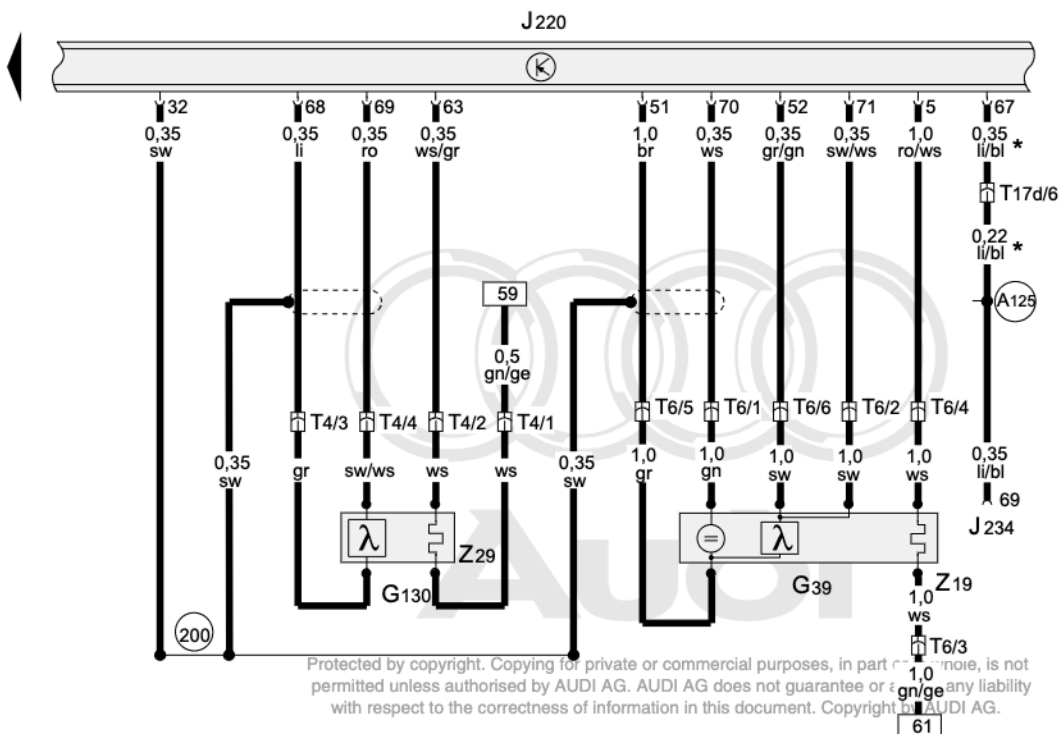
- A18 Wire connection (54), in instrument panel wiring harness
- A20 Wire connection (15a), in instrument panel wiring harness
- A154 Wire connection (Brake Light Switch), in instrument panel wiring harness
- * Manual transmission only

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Motronic Engine Control Module, Heated Oxygen Sensors

- G39 Heated Oxygen Sensor (HO2S)
- G130 Oxygen Sensor (O2S) Behind Three Way Catalytic Converter (TWC)
- J220 Motronic Engine Control Module (ECM)
- J234 Airbag Control Module
- T4 4-Pin Connector, brown, connector station Heated Oxygen Sensor (HO2S) (firewall)
- T6 6-Pin Connector, black, connector station Heated Oxygen Sensor (HO2S) (firewall)
- T17d 17-Pin Connector, red, connector station E-box, plenum chamber
- Z19 Oxygen Sensor (O2S) Heater
- Z29 Oxygen Sensor (O2S) Heater 1 Behind Three Way Catalytic Converter (TWC)

- (200) Ground connection (shielding), in engine compartment wiring harness
- (A125) Wire connection (crash signal), in instrument panel wiring harness
- * discontinued from 2003 m. y. (phased in modification)



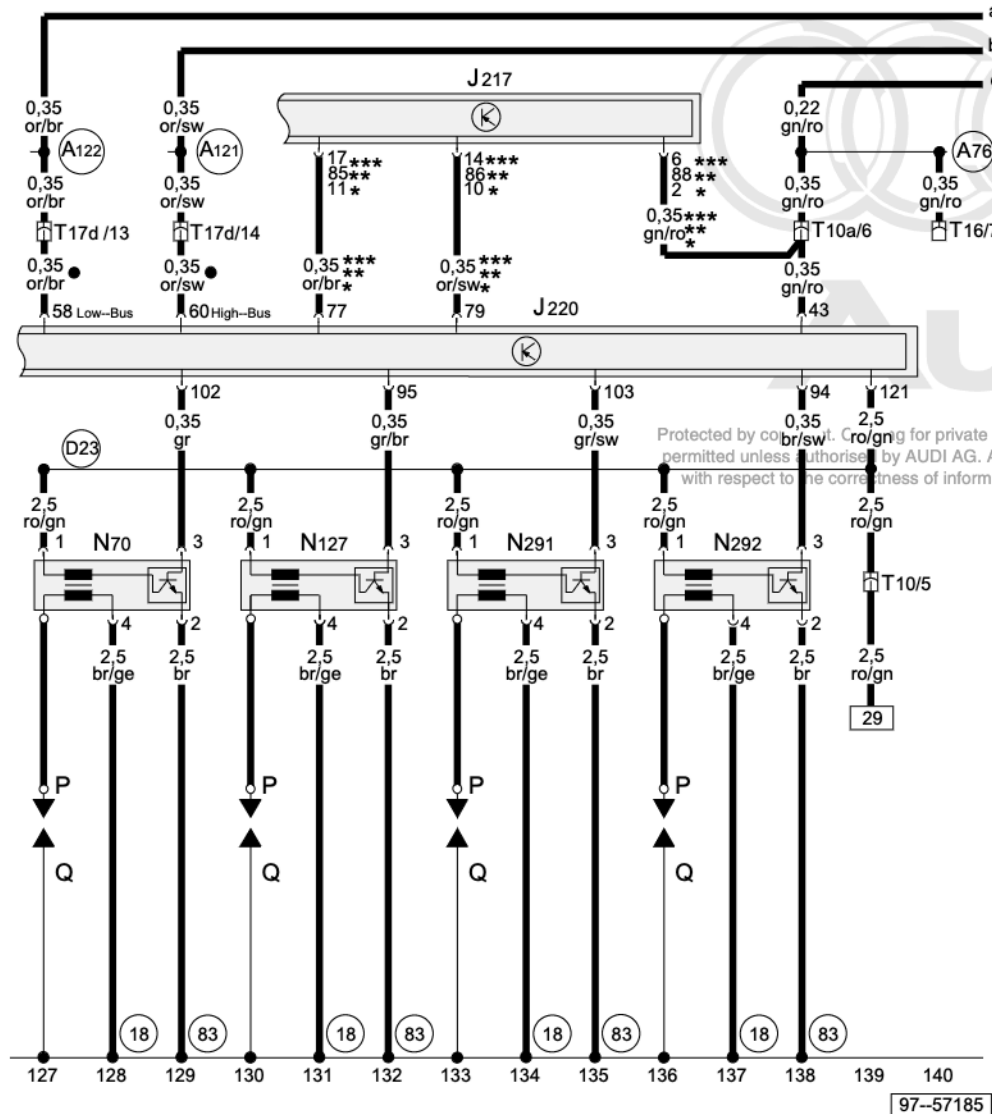
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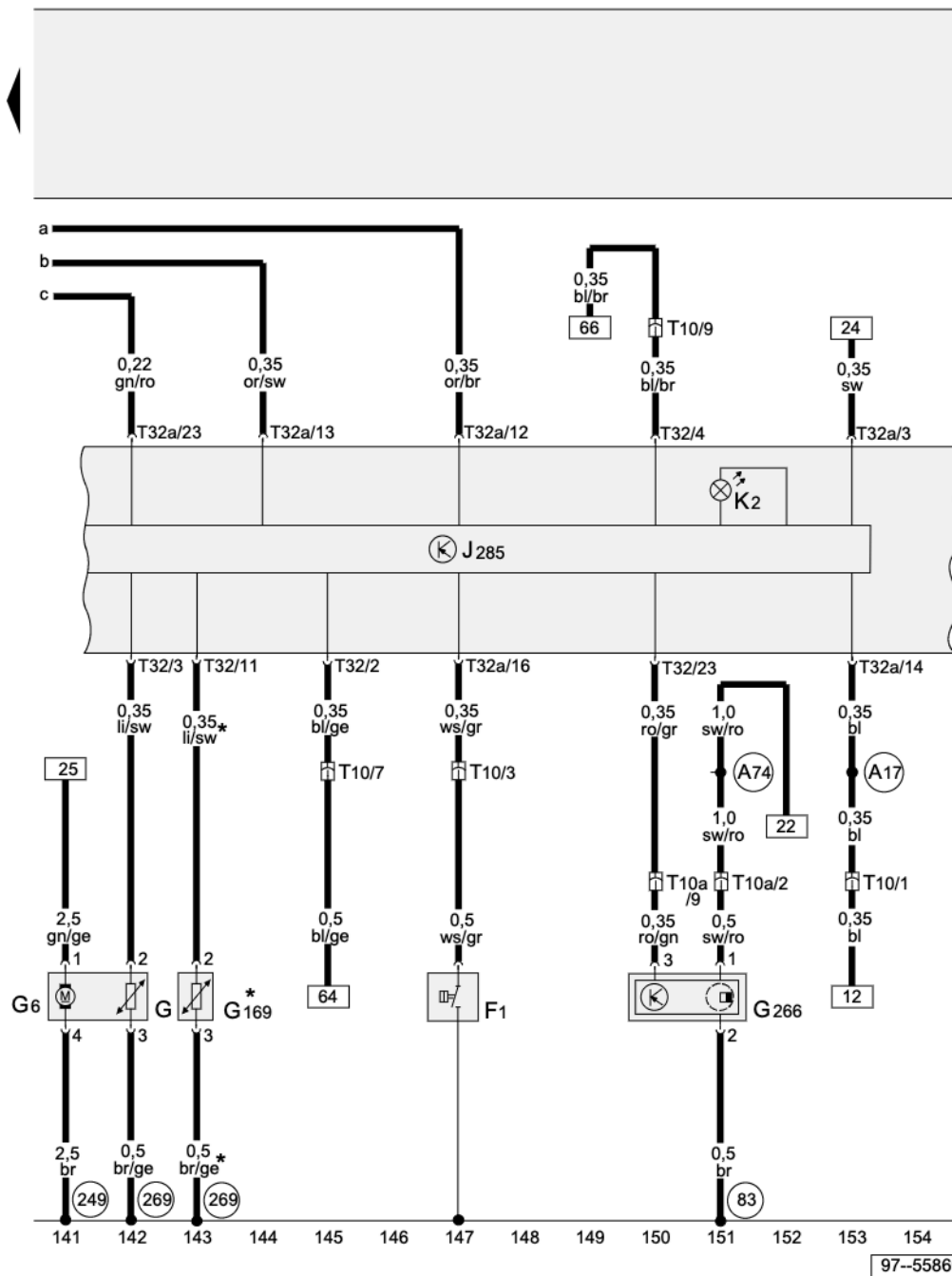
Motronic Engine Control Module, Ignition Coils with Power Output Stages

- J217 Transmission Control Module (TCM)
- J220 Motronic Engine Control Module (ECM)
- N70 Ignition Coil 1 with Power Output Stage
- N127 Ignition Coil 2 with Power Output Stage
- N291 Ignition Coil 3 with Power Output Stage
- N292 Ignition Coil 4 with Power Output Stage
- P Spark Plug Connectors
- Q Spark Plugs
- T10 10-Pin Connector, black, connector station E-box, plenum chamber
- T10a 10-Pin Connector, brown, connector station E-box, plenum chamber
- T16 16-Pin Connector, black, diagnostic connection
- T17d 17-Pin Connector, red, connector station E-box, plenum chamber

- 18 Ground connection, on engine block
- 83 Ground connection -1-, in right front wiring harness
- A76 Wire connection (K-diagnosis wire), in instrument panel wiring harness
- A121 Wire connection (High-bus), in instrument panel wiring harness
- A122 Wire connection (Low-bus), in instrument panel wiring harness
- D23 Connector (over fuse 229), in wiring harness front, right
- * Automatic transmission (multitronic 01J) only, up to 2003 m. y.
- ** Automatic transmission (AG5) only
- *** Automatic transmission (multitronic 01J) only, from 2004 m. y.
- CAN-Bus (Data bus)

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Control module with indicator unit in instrument panel insert, Oil Pressure Switch, Oil Level Thermal Sensor, Fuel Pump (FP), Fuel Level Sensor 2

- F1 Oil Pressure Switch
- G Sender for fuel gauge
- G6 Fuel Pump (FP)
- G169 Fuel Level Sensor 2
- G266 Oil Level Thermal Sensor
- J285 Control module with indicator unit in instrument panel insert
- K2 Generator (GEN) Warning Light
- T10 10-Pin Connector, black, connector station E-box, plenum chamber
- T10a 10-Pin Connector, brown, connector station E-box, plenum chamber
- T32 32-Pin Connector, blue, on instrument panel insert
- T32a 32-Pin Connector, green, on instrument panel insert
- 83 Ground connection -1-, in right front wiring harness

- 249 Ground connection -2-, in wiring harness interior
- 269 Ground connection (sensor Ground) -1-, in instrument panel wiring harness
- A17 Wire connection (61), in instrument panel wiring harness
- A74 Connector (15a, fuse 5), in instrument panel wiring harness
- * quattro only